

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (Currently amended): A method of searching unstructured data stored in a
2 database, the method comprising:
3 storing unstructured data in a column of a database table;
4 receiving user input identifying one or more elements in the unstructured data as
5 query elements ~~allowing a user identify elements in the unstructured data as indexed elements;~~
6 generating a set of database tables in response to the user input identifying the one
7 or more elements in the unstructured data as query elements, the set of database tables
8 configured to translate a query element to an associated user-identified element in the
9 unstructured data ~~in response to the user identified elements, creating an intermediate index into~~
10 ~~the unstructured data from the user identified elements, the intermediate index comprising one or~~
11 ~~more database tables mapping the user identified elements in the unstructured data as the~~
12 ~~indexed elements; and~~
13 generating one or more ~~allowing a user to create~~ queries on the unstructured data
14 using the ~~indexed~~ query elements.

1 2. (Currently amended): The method of claim 1 wherein the one or more queries
2 specify at least one value and an operation that is to be performed on a[[n]] user-identified
3 element in the unstructured data.

1 3. (Currently amended): The method of claim 2 wherein the one or more queries
2 further include a start date and an end date.

1 4. (original): The method of claim 1 wherein the unstructured data is stored in
2 character large object (CLOB) format.

1 5. (original): The method of claim 4 wherein the unstructured data comprises a
2 well-formed XML document stored within a column of a database table.

1 6. (original): The method of claim 5 wherein XML fields of the unstructured
2 data are filled with transaction data from a database transaction based on a predefined mapping
3 to multiple data sources.

1 7. (Currently amended): The method of claim 6 wherein the multiple data
2 sources ~~[[are]]~~ comprise multiple tables of a database.

1 8. (original): The method of claim 1 wherein the unstructured data is part of an
2 electronic record stored in a common repository of electronic records that provides an audit trail
3 that cannot be altered or disabled by users of the system.

1 9. (Currently amended): A method of searching XML data stored in a column of
2 a database table in character large object (CLOB) format, the method comprising:

3 storing the XML data in the column of the database table, wherein the XML data
4 comprises a first plurality of XML elements that conform to a first data type definition (DTD)
5 and a second plurality of XML elements that conform to a second DTD;

6 receiving user input identifying one or more elements in the first and second
7 plurality of XML elements as query elements ~~allowing a user to identify elements from the first~~
8 ~~and second plurality of XML elements in XML data as indexed elements;~~

9 generating a set of database tables in response to the user input identifying the one
10 or more elements in the first and second plurality of XML elements as query elements, the set of
11 database tables configured to translate a query element to an associated user-identified element
12 in the first and second plurality of XML elements ~~in response to the user-identified elements,~~
13 ~~creating an intermediate index into the XML data from the user-identified elements, the~~
14 ~~intermediate index comprising one or more database tables configured to map the user-identified~~
15 ~~elements in the unstructured data as the indexed elements; and~~

16 generating one or more ~~allowing a user to create~~ queries on the unstructured data
17 using the ~~indexed~~ query elements.

1 10. (Currently amended): The method of claim 9 wherein the first and second
2 DTDs include first and second XML elements, respectively, that share a common name but
3 represent different types of data; and
4 wherein the set of database tables are configured to translate ~~the user can create~~ a
5 first ~~indexed~~ query element that represents the first XML element and not the second XML
6 element and a second ~~indexed~~ query element that represents the second XML element and not
7 the first XML element.

1 11. (Currently amended): A computer system for searching unstructured data
2 stored in a database, the computer system comprising:

3 a processor;
4 a database; and
5 a computer-readable memory coupled to the processor, the computer-readable
6 memory configured to store a computer program;

7 wherein the processor is operative with the computer program to:

8 (i) store unstructured data in a column of a database table;
9 (ii) receive user input identifying one or more elements in the
10 unstructured data as query elements ~~allow a user to identify elements in the unstructured~~
11 ~~data as indexed elements;~~

12 (iii) generate set of database tables in response to the user input
13 identifying the one or more elements in the unstructured data as query elements, the set of
14 database tables configured to translate a query element to an associated user-identified
15 element in the unstructured data in response to the user-identified elements, create an
16 ~~intermediate index into the unstructured data from the user-identified elements, the~~
17 ~~intermediate index comprising one or more database tables configured to map the user-~~
18 ~~identified elements in the unstructured data as the indexed elements; and~~

19 (iv) generating one or more ~~allow a user to create~~ queries on the
20 unstructured data using the ~~indexed~~ query elements.

1 12. (Currently amended): The computer system of claim 11 wherein the one or
2 more queries specify at least one value and an operation that is to be performed on a [[n]] user-
3 identified element in the unstructured data.

1 13. (original): The computer system of claim 11 wherein the unstructured data is
2 stored in character large object (CLOB) format.

1 14. (previously presented): The computer system of claim 11 wherein the
2 unstructured data comprises well-formed XML documents stored within a column of a table
3 stored in the database.

1 15. (original): The computer system of claim 14 wherein fields of the
2 unstructured data are filled with transaction data from a database transaction based on a
3 predefined mapping to multiple data sources.

1 16. (Currently amended): A ~~computer program stored on a~~ computer-readable
2 storage medium storing a computer program operative with a processor of a computer system for
3 searching unstructured data stored in a database, the computer program comprising:
4 code for storing unstructured data in a column of a database table;
5 code for receiving user input identifying one or more elements in the unstructured
6 data as query elements ~~allowing a user to identify elements in the unstructured data as indexed~~
7 ~~elements;~~
8 code for generating a set of database tables in response to the user input
9 identifying the one or more elements in the unstructured data as query elements, the set of
10 database tables configured to translate a query element to an associated user-identified element
11 in the unstructured data in response to the user-identified elements, creating an intermediate
12 ~~index into the unstructured data from the user-identified elements, the intermediate index~~

13 ~~comprising one or more database tables configured to map the user-identified elements in the~~
14 ~~unstructured data as the indexed elements; and~~
15 code for generating one or more ~~allowing a user to create~~ queries on the
16 unstructured data using the indexed elements.

1 17. (Currently amended): The computer program of claim 16 wherein the one or
2 more queries specify at least one value and an operation that is to be performed on a[[n]] user-
3 identified element in the unstructured data.

1 18. (original): The computer program of claim 16 wherein the unstructured data
2 is stored in character large object (CLOB) format.

1 19. (original): The computer program of claim 16 wherein the unstructured data
2 comprises well-formed XML documents stored within a column of a table stored in the database.

1 20. (original): The computer program of claim 16 wherein fields of the
2 unstructured data are filled with transaction data from a database transaction based on a
3 predefined mapping to multiple data sources.